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PUBLICATION NUMBER : 11167868
PUBLICATION DATE : 22-06-99

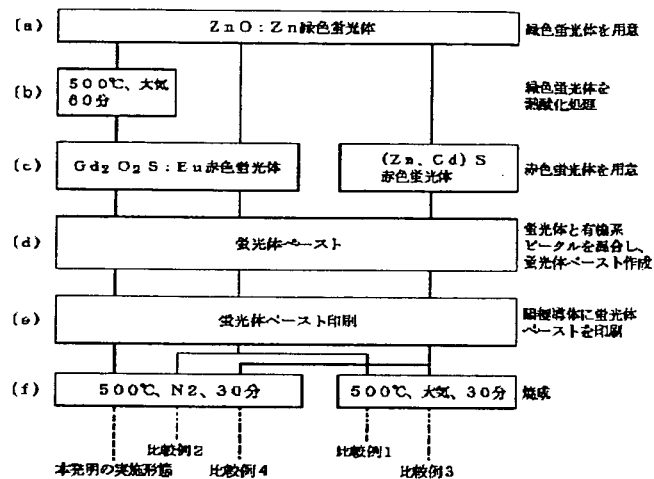
APPLICATION DATE : 04-12-97
APPLICATION NUMBER : 09334187

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INT.CL. : H01J 9/227 H01J 31/15

TITLE : MANUFACTURE OF FLUORESCENT
CHARACTER DISPLAY TUBE



ABSTRACT : PROBLEM TO BE SOLVED: To provide high level brightness, simplify a production process, reduce production cost at the same time by applying oxidation heat treatment to one phosphor of phosphors.

SOLUTION: In the production process of a multi-color fluorescent character display tube, a ZnO:Zn green phosphor prepared by a usual baking process is put in an alumina crucible, and oxidation-heat treated in the atmosphere at 490-510°C for 55-65 minutes. An acid sulfide family phosphor in addition to ZnO:Zn phosphor to which oxidation heat treatment is applied is prepared. A fluorescent character display tube obtained by using these phosphors and in the specified production process is lit at room temperature at an anode voltage of 30 V, a cathode voltage of 1.5 V, and a grid voltage of 17 V, and its brightness has been measured with a luminance meter, and high level brightness of 10,200 cd/m² is obtained in the ZnO:Zn phosphor.

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